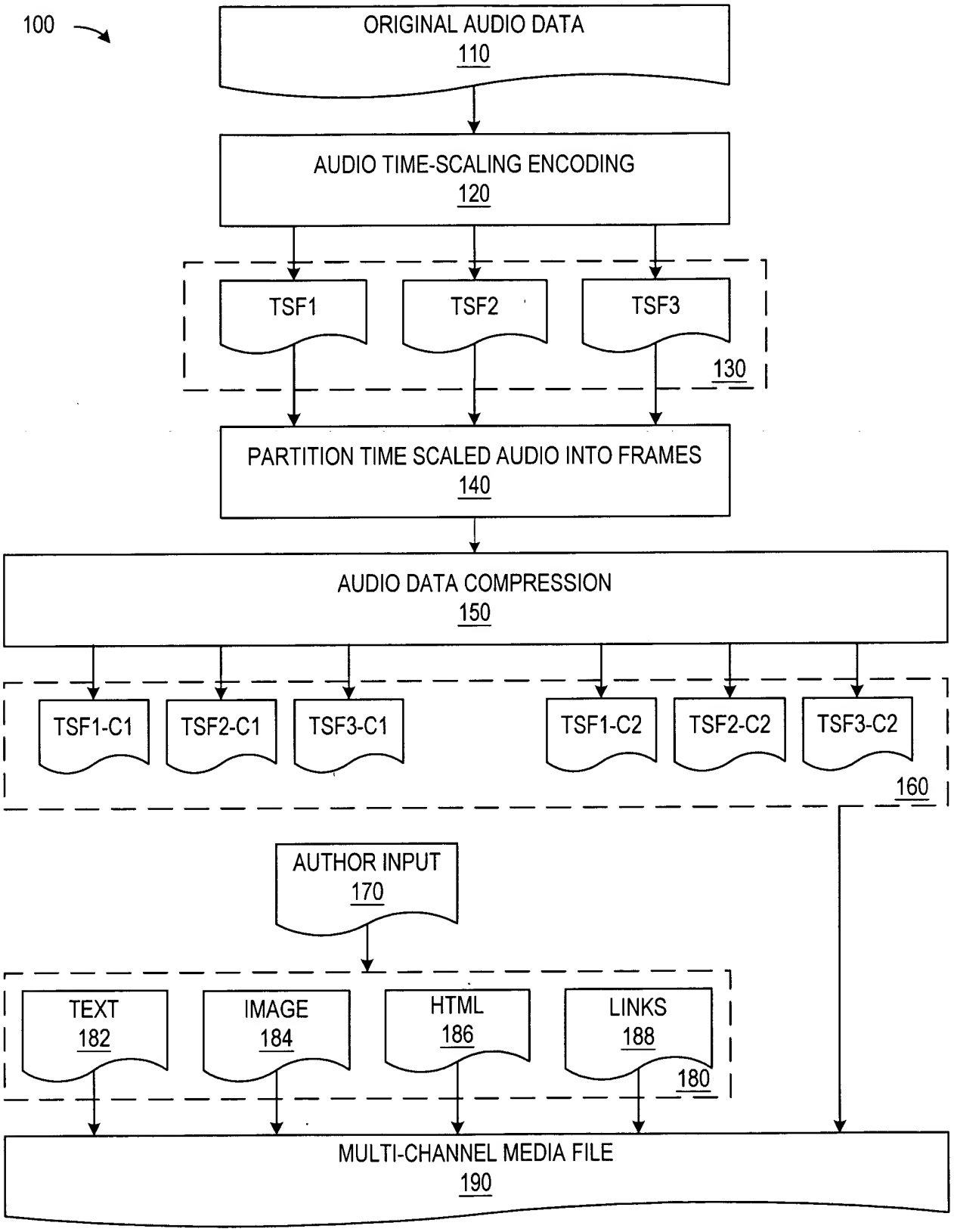
100
ORIGINAL AUDIO DATA
110
AUDIO TIME-SCALING ENCODING
120
TSF1
TSF2
TSF3
130
PARTITION TIME SCALED AUDIO INTO FRAMES
140
AUDIO DATA COMPRESSION
150
TSF1-C1
TSF2-C1
TSF3-C1
TSF1-C2
TSF2-C2
TSF3-C2
160
AUTHOR INPUT
170
TEXT
182
IMAGE
184
HTML
186
LINKS
188
180
MULTI-CHANNEL MEDIA FILE
190

FIG. 1

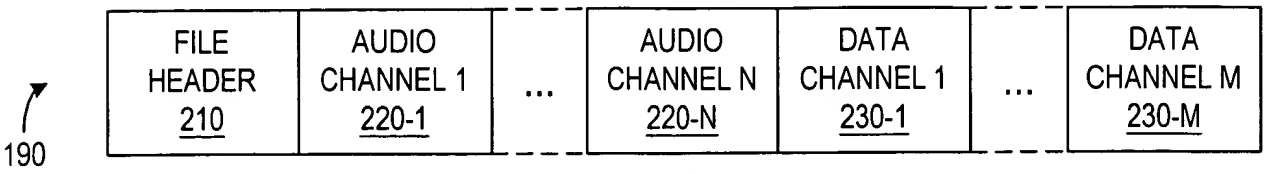

FIG. 2A

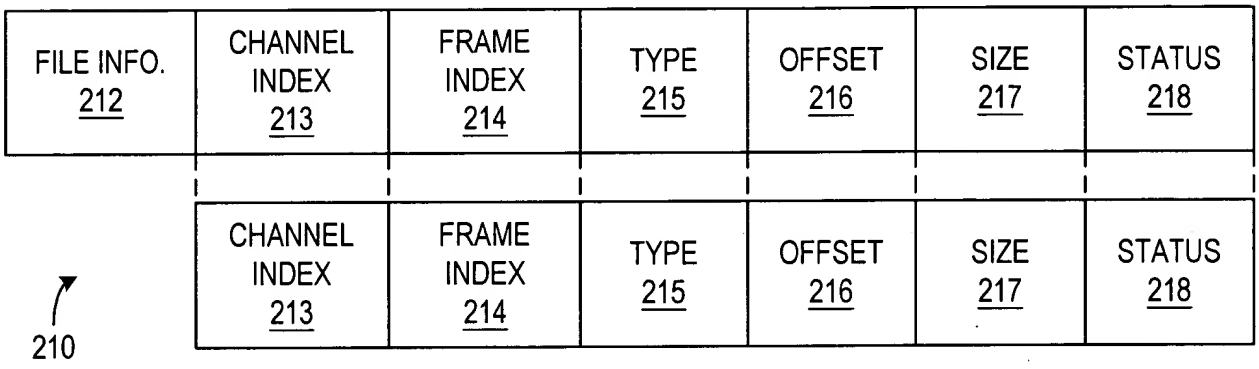

FIG. 2B

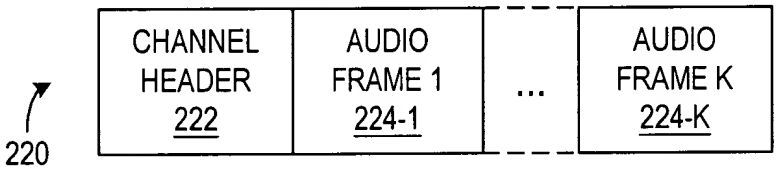

FIG. 2C

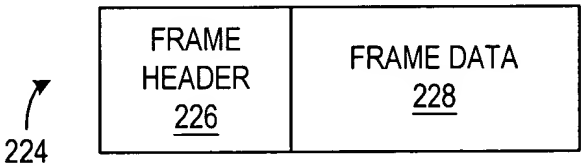

FIG. 2D

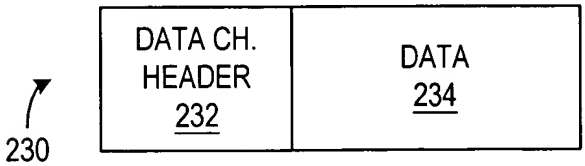

FIG. 2E

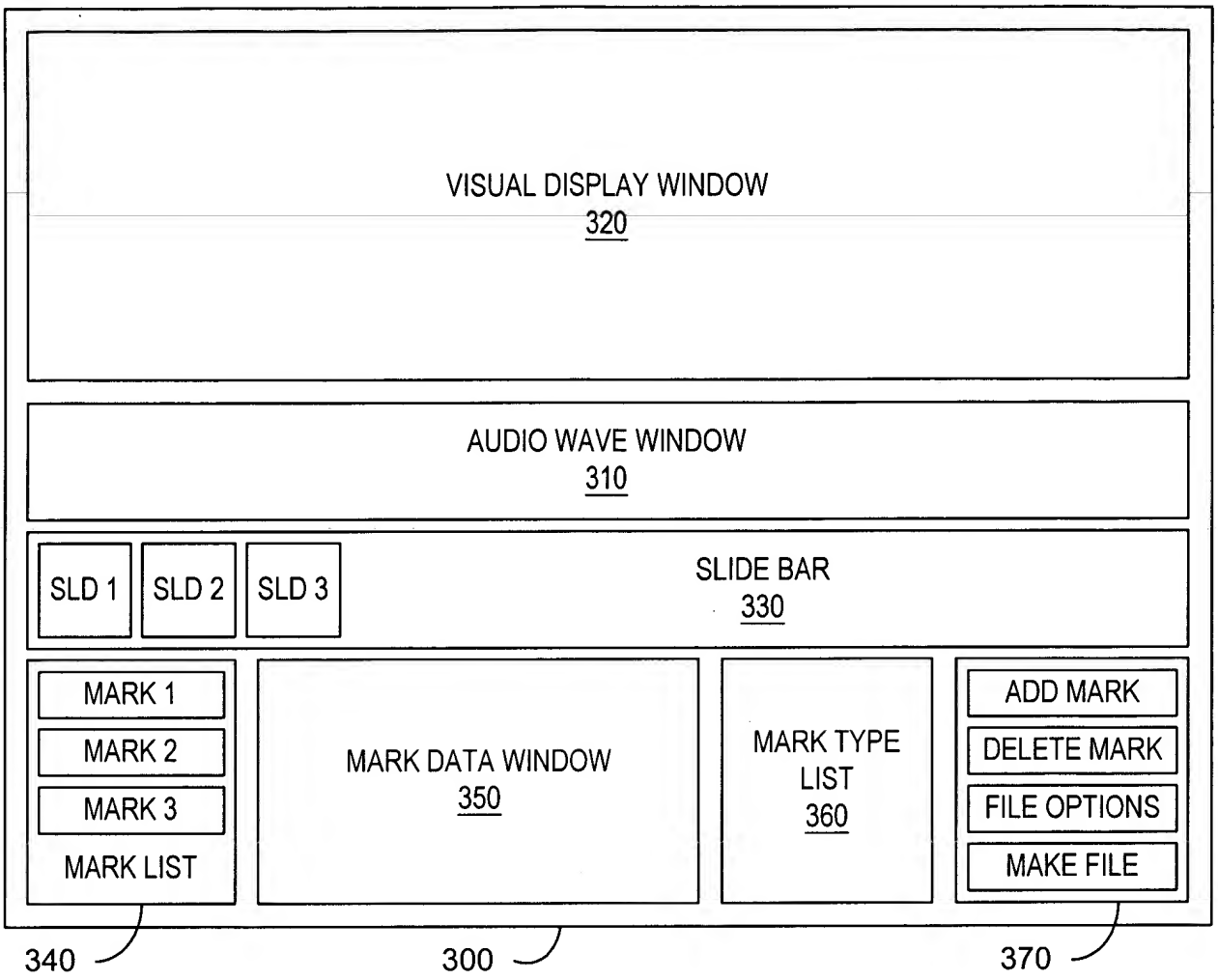
VISUAL DISPLAY WINDOW
320
AUDIO WAVE WINDOW
310
SLD 1
SLD 2
SLD 3
SLIDE BAR
330
MARK 1
MARK 2
MARK 3
MARK LIST
MARK DATA WINDOW
350
MARK TYPE
LIST
360
ADD MARK
DELETE MARK
FILE OPTIONS
MAKE FILE
340
300
370

FIG. 3

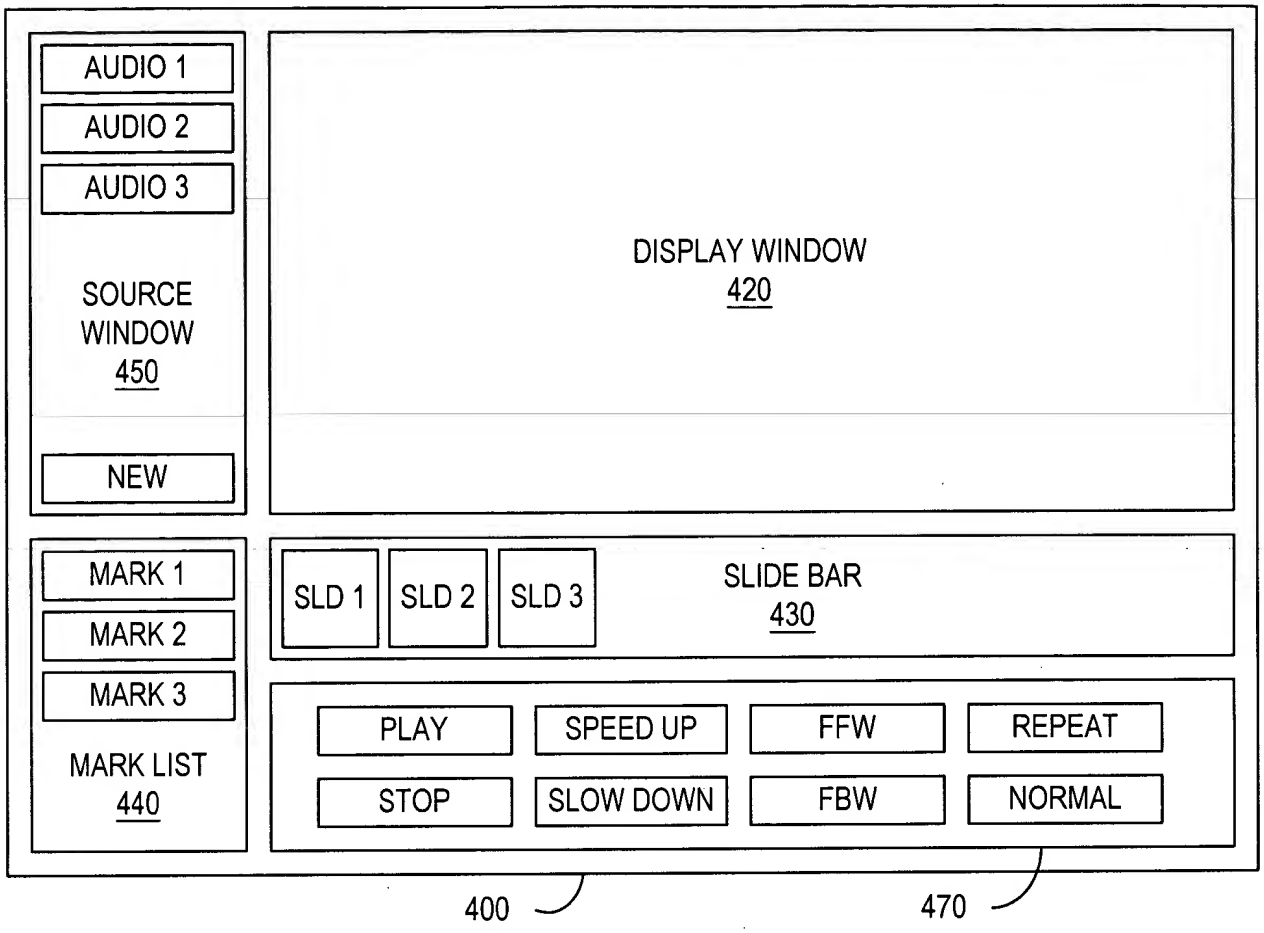
AUDIO 1
AUDIO 2
AUDIO 3
SOURCE WINDOW 450
NEW
DISPLAY WINDOW 420
MARK 1
MARK 2
MARK 3
MARK LIST 440
SLD 1
SLD 2
SLD 3
SLIDE BAR 430
PLAY
SPEED UP
FFW
REPEAT
STOP
SLOW DOWN
FBW
NORMAL
400
470

FIG. 4

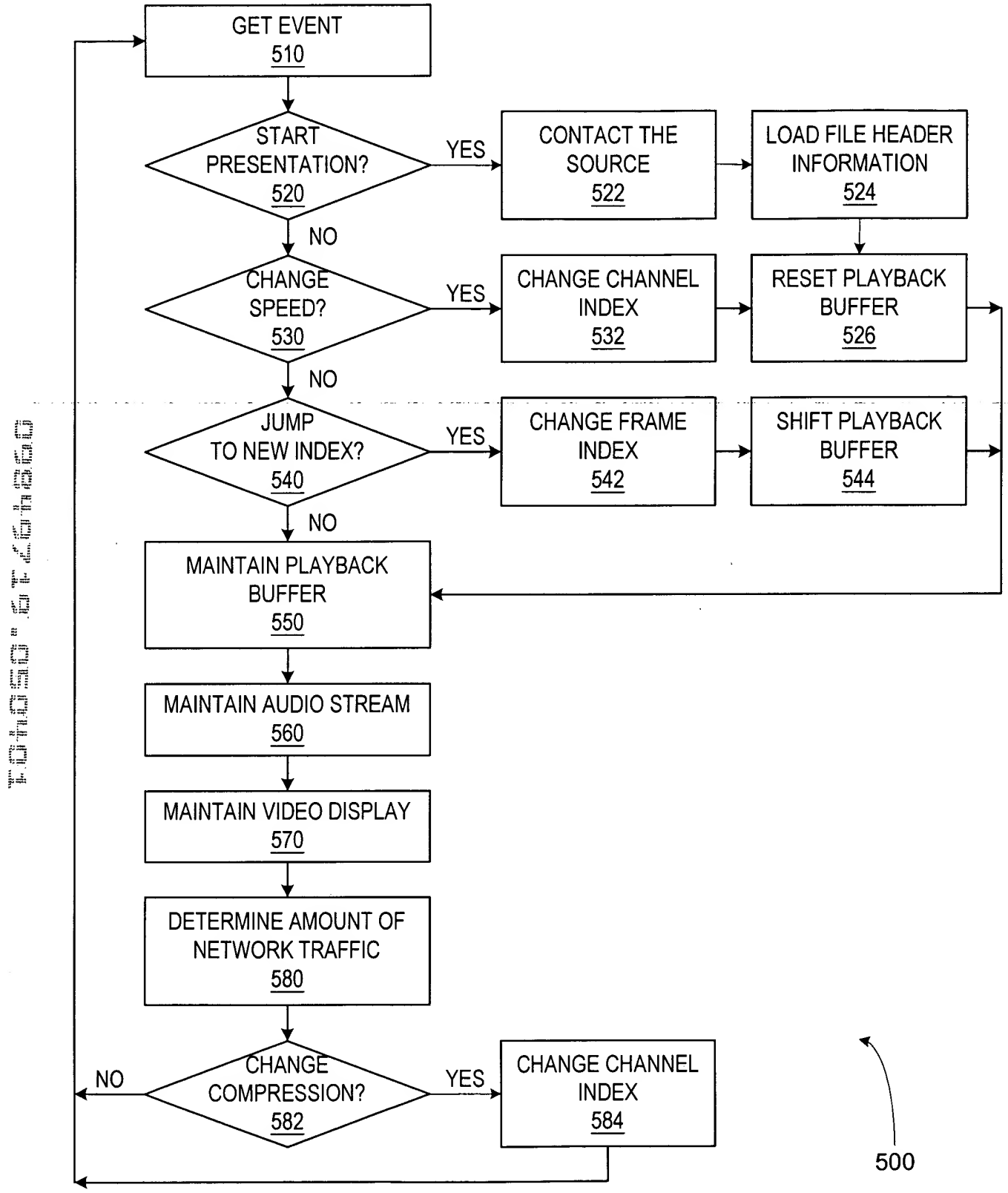
GET EVENT
510
START PRESENTATION?
520
YES
CONTACT THE SOURCE
522
LOAD FILE HEADER INFORMATION
524
NO
CHANGE SPEED?
530
YES
CHANGE CHANNEL INDEX
532
RESET PLAYBACK BUFFER
526
NO
JUMP TO NEW INDEX?
540
YES
CHANGE FRAME INDEX
542
SHIFT PLAYBACK BUFFER
544
NO
MAINTAIN PLAYBACK BUFFER
550
MAINTAIN AUDIO STREAM
560
MAINTAIN VIDEO DISPLAY
570
DETERMINE AMOUNT OF NETWORK TRAFFIC
580
CHANGE COMPRESSION?
582
NO
YES
CHANGE CHANNEL INDEX
584
500

FIG. 5

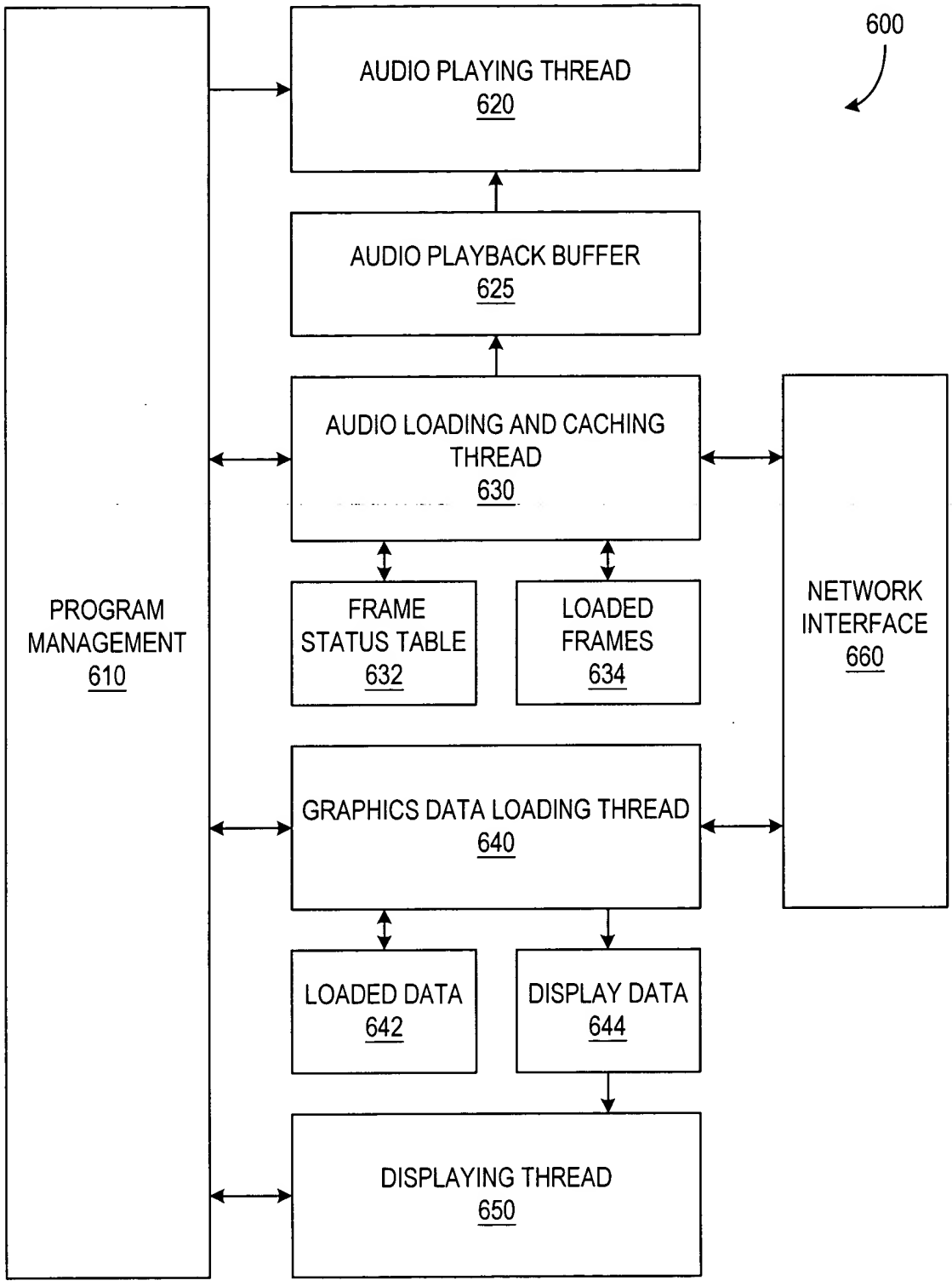
600
AUDIO PLAYING THREAD
620
AUDIO PLAYBACK BUFFER
625
AUDIO LOADING AND CACHING THREAD
630
PROGRAM MANAGEMENT
610
FRAME STATUS TABLE
632
LOADED FRAMES
634
NETWORK INTERFACE
660
GRAPHICS DATA LOADING THREAD
640
LOADED DATA
642
DISPLAY DATA
644
DISPLAYING THREAD
650

FIG. 6

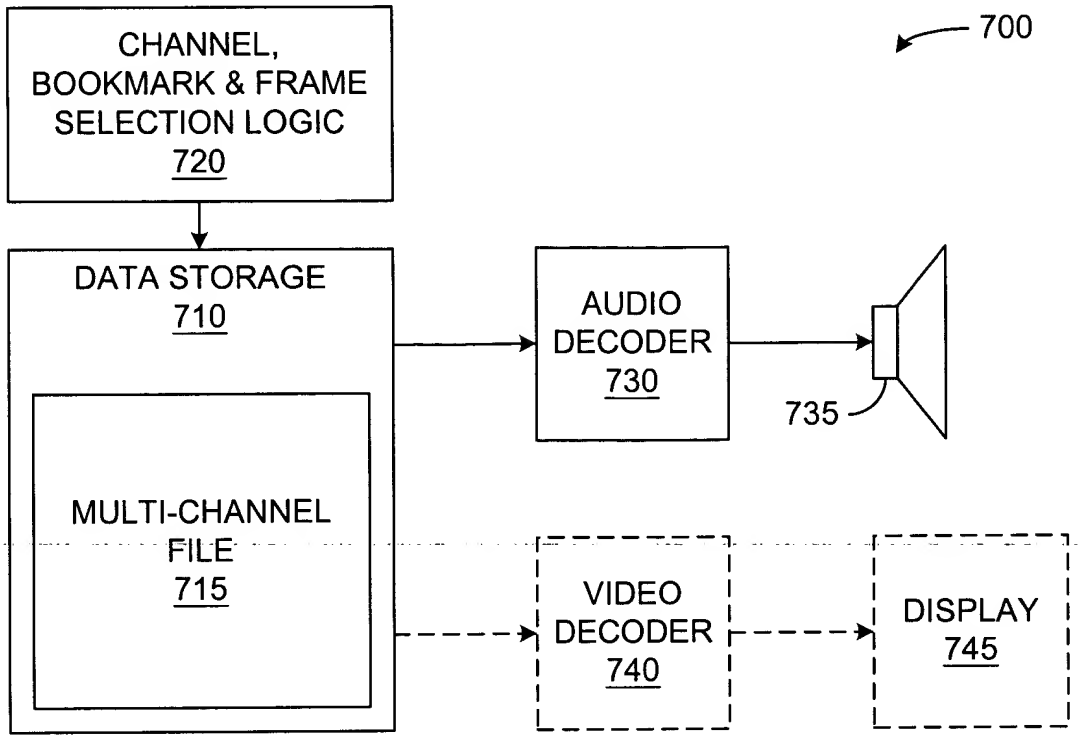
700
CHANNEL, BOOKMARK & FRAME SELECTION LOGIC 720
DATA STORAGE 710
MULTI-CHANNEL FILE 715
AUDIO DECODER 730
735
VIDEO DECODER 740
DISPLAY 745

FIG. 7